

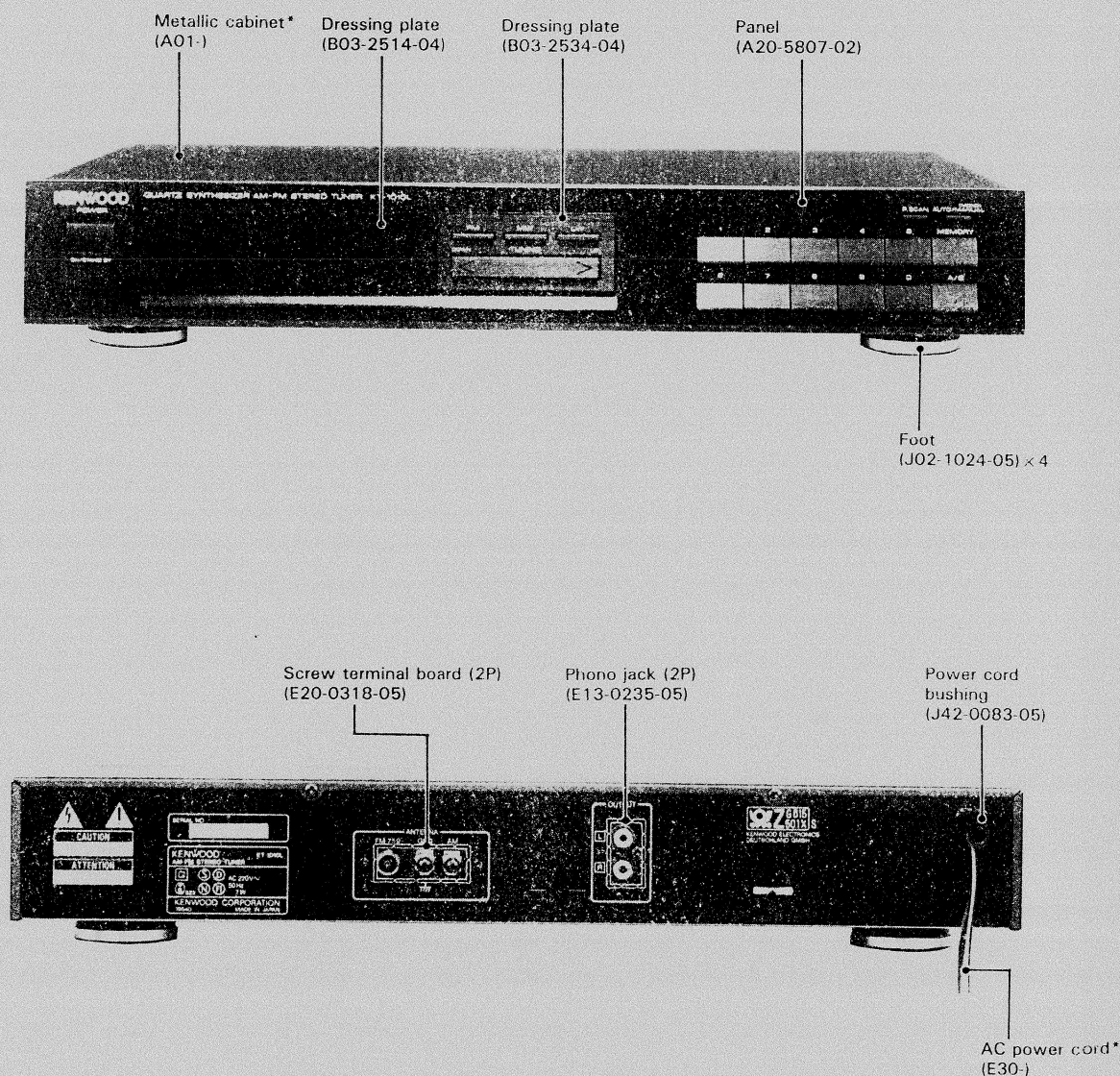
QUARTZ SYNTHESIZER AM-FM STEREO TUNER

KT-1010/L

SERVICE MANUAL

KENWOOD

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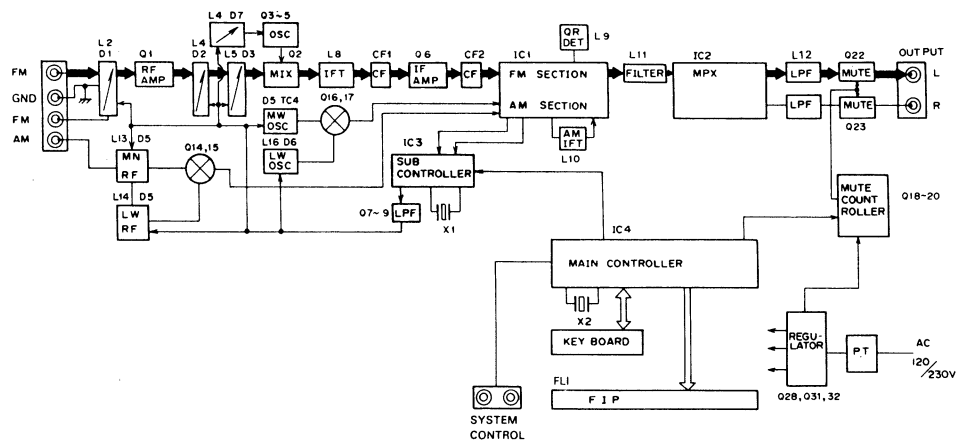


* Refer to parts list on page 28.
Photo is KT-1010L

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BLOCK DIAGRAM



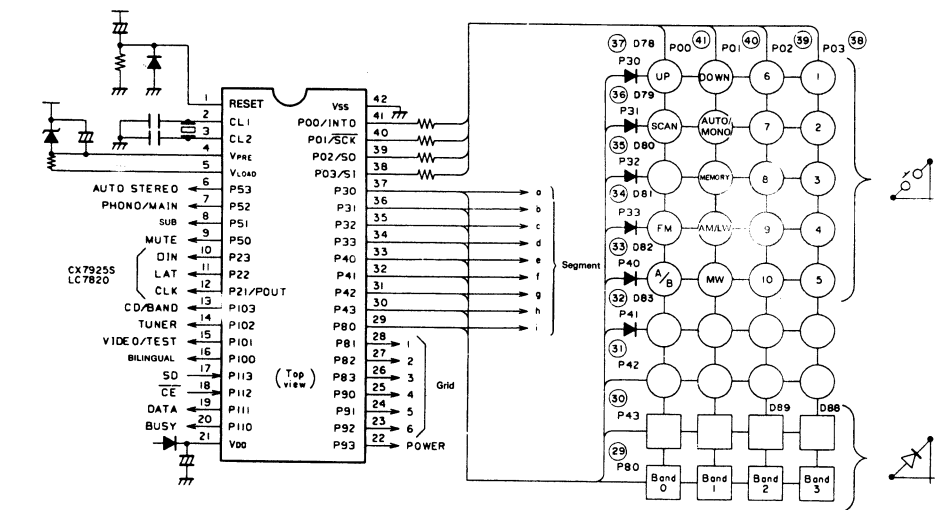
CIRCUIT DESCRIPTION

Function of components
Tuner unit (X05-370X-XX, X05-372X-XX, X05-374X-XX)

Components	Use/Function	Operation/Condition/Interchangeability
IC1 (LA1265)	FM/AM system IC	FM IF amp. detection and control: AM mixing. IF amp and detection.
IC2 (AN7470)	MPX IC	MPX demodulator
IC3 (CX7925B or LM7001)	PLL IC for frequency synthesizer	PLL for electronic tuning.
IC4 (μ PD7538AC-045 or μ PD7538AC-041)	4-bit microcomputer	Controller for PLL and display, etc.
Q1	RF AMP	High-frequency amp
Q2	MIX	Frequency converter
Q3	OSC	Local oscillator
Q4	OSC Buffer	OSC OUT (oscillator output) for synthesizer
Q5	OSC Buffer	For local oscillator input to MIX
Q6	FM IF AMP	10.7 MHz amp
Q7,8	L.P.F	Low pass filter for PLL
Q9	Low pass filter select	Time constant select in LW mode
Q10	Low pass filter select	Q9 control: LW position with this switch ON
Q11	AM-FM select	TC1 mode select: AM position with this switch ON
Q12	Inverter amp	Auto Stop control
Q13	Buffer	Impedance converter
Q14,15	AM RF select	Electronic RF selection between LW and MW
Q16,17	AM OSC (oscillator) select	Electronic OSC (oscillator) selection between LW and MW
Q18	Mute inverter	Inversion of IC4 control signal
Q19	Mute control	Activated when Function is changed over
Q20	MUTE Driver	Activated when Function is changed over
Q23,24	MUTE Switch	Muting when Function is changed over
Q25	Band select	LW/MW mode control
Q26,27	Band select	AM/FM mode control
Q28	Constant voltage	For stabilizing +12V
Q29	POWER Driver	ON/OFF of +12V power supply
Q30	Power control	Power ON/OFF control
Q31	Constant voltage	For stabilizing +5V
Q32	Constant voltage	For stabilizing +5V, and CE control
Q33	FIP control	Supplies +5V to Q34 and Q35 when power is ON
Q34	FIP Driver	TUNED indication
Q35	FIP Driver	STEREO indication
Q36	FIP control	Controls Q38 when power is ON
Q37	FIP Driver	FIP indication
Q38,39	Band select	LW/MW SW control (CX-7925B models)

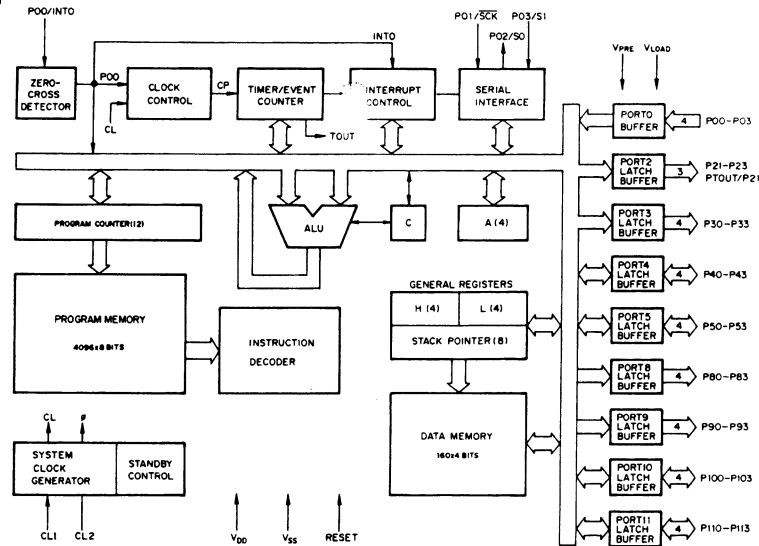
CIRCUIT DESCRIPTION

IC4: μ PD7538AC-045/-041 (X05-370X-XX/-374X-XX)
Microprocessor IC
Pin connections and key matrix connections



LM7001	μ PD7538AC-045
CX7925B	μ PD7538AC-041

Block diagram



CIRCUIT DESCRIPTION

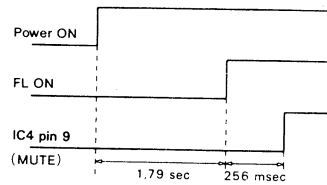
Pin functions

Pin No.	Symbol	I/O mode	Operation mode	Name	Function
1	RESET	I	H		Reset signal.
2	CL1	—	—		Clock pulse.
3	CL2	—	—		Colck pulse.
4	VPPE	—	—		FL tube predrive power supply.
5	VLOAD	—	—		FL tube drive power supply (—30 V)
6	P53	O	H	AUTO-STEREO	Control by MONO/ST key. Stereo (L), Mono (H)
7	P52	O	H	MAIN	TV MAIN pin.
8	P51	O	H	SUB	TV SUB pin.
9	P50	O	H	MUTE	Muting signal.
10	P23	O	H	DIN	CLK output to PLL IC (LM7001 or CX7925B).
11	P22	O	H	LAT	LAT output to PLL IC (LM7001 or CX7925B).
12	P21/POUT	O	H	CLK	DATA output to PLL IC (LM7001 or CX7925B).
13	P103	O	H		Band information output (UHF-H).
14	P102	O	H		
15	P101	O	H	TEST	Input port: TEST pin (H).
16	P100	O	H		Input port: TV mode "Bilingual" pin (H).
17	P113	I	H	SD	Broadcasting station detection signal when auto-tuning.
18	P112	I	L	CE	Backup detection pin.
19	P111	I/O	H	DATA	Serial signal DATA pin.
20	P110	I/O	H	BUSY	Serial signal BUSY pin.
21	VDD	—	—	VDD	+5 V power input pin.
22	P93	O	H		Power supply pin.
23	P92	O	H	G6	FL tube digit control pin, GRID6.
24	P91	O	H	G5	FL tube digit control pin, GRID5.
25	P90	O	H	G4	FL tube digit control pin, GRID4.
26	P83	O	H	G3	FL tube digit control pin, GRID3.
27	P82	O	H	G2	FL tube digit control pin, GRID2.
28	P81	O	H	G1	FL tube digit control pin, GRID1.
29	P80	O	H	i	Key strobe signal output, FL tube segment output i.
30	P43	O	H	h	Key strobe signal output, FL tube segment output h.
31	P42	O	H	g	Key strobe signal output, FL tube segment output g.
32	P41	O	H	f	Key strobe signal output, FL tube segment output f.
33	P40	O	H	e	Key strobe signal output, FL tube segment output e.
34	P33	O	H	d	Key strobe signal output, FL tube segment output d.
35	P32	O	H	c	Key strobe signal output, FL tube segment output c.
36	P31	O	H	b	Key strobe signal output, FL tube segment output b.
37	P30	O	H	a	Key strobe signal output, FL tube segment output a.
38	P03/Si	I	H		Key return signal input.
39	P02/Se	I	H		Key return signal input.
40	P01/SCK	I	H		Key return signal input.
41	P00/INTO	I	H		Key return signal input.
42	VSS	—	—	VSS	GND

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CIRCUIT DESCRIPTION

Signal timing after Power ON in Concept mode



Muting control

The output muting signal is controlled as follows
When the pin 9 (MUTE) of the microprocessor is "L", the output muting signal becomes "H" to mute off the output during a following period at each event.

- At power ON/OFF ... Operates for 2 seconds from power ON.
- At band selection
- At preset channel call ... Operates for 0.3 second.
- At tuning dial up/down

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: FM MODE/AUTO							
1	BAND EDGE (1)	—	Connect a DC voltmeter between TP1(VT) and TP2(GND).	87.5MHz	L7	2.5V	(a)
2	BAND EDGE (2)	—	Connect a DC voltmeter between TP1(VT) and TP2(GND).	108.0MHz	TC1	8.0V	(a)
Repeat alignments 1 and 2 several times.							
3	RF ALIGNMENT	(A) 98.0MHz 1kHz, ±75kHz dev	(B)	MONO 98.0MHz	Front end L2,3,4	Maximum amplitude and symmetry of the oscilloscope display.	
4	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±75kHz dev 60dBμ(Ant input)	Connect a DC voltmeter between TP3 and TP4.	MONO 98.0MHz	L9	0V	(b)
5	VCO	(A) 98.0MHz 0 dev 60dBμ(Ant input)	Connect a 330kΩ resistor to TP8. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	VR3	19.00kHz	(c)
6	SEPARATION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R 60dBμ(Ant input)	(B)	98.0MHz	L8	Minimum crosstalk.	
7	TUNING LEVEL	(A) 98.0MHz 0 dev 18dBμ(Ant input) 300V 14dBμ(Ant input) 75V	(B)	AUTO or MONO 98.0MHz	VR2	Adjust VR2 and stop at the point where FL1(TUNED) goes on.	
AM-MW SECTION Keep the AM loop antenna installed. SELECTOR: AM (KT-1010) or MW (KT-1010L)							
(1)	BAND EDGE (1)	—	Connect a DC voltmeter between TP1(VT) and TP2(GND).	530kHz (531kHz)	L16	1.5V	(a)
(2)	BAND EDGE (2)	—	Connect a DC voltmeter between TP1(VT) and TP2(GND).	1610kHz (1602kHz)	TC5	8.0V	(a)
Repeat alignments (1) and (2) several times.							
(3)	RF ALIGNMENT (1)	(D) 630kHz 400Hz, 30% mod	(B)	630kHz	L14	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1440kHz 400Hz, 30% mod	(B)	1440kHz	TC3	Maximum amplitude and symmetry of the oscilloscope display.	
(5)	TUNING LEVEL	(D) 1000kHz 36dBμ(Ant input)	(B)	—	VR1	Adjust VR1 and stop at the point where FL1(TUNED) goes on.	
Repeat alignments (3) and (4) several times.							
AM-LW SECTION (KT-1010L only) Keep the AM loop antenna installed. SELECTOR: LW							
(6)	BAND EDGE (1)	—	Connect a DC voltmeter between TP1(VT) and TP2(GND).	153kHz	L15	1.5V	(a)
(7)	BAND EDGE (2)	—	Connect a DC voltmeter between TP1(VT) and TP2(GND).	281kHz	TC4	8.0V	(a)
Repeat alignments (6) and (7) several times.							
(8)	RF ALIGNMENT (1)	(D) 162kHz 400Hz, 30% mod	(B)	162kHz	L13	Maximum amplitude and symmetry of the oscilloscope display.	
(9)	RF ALIGNMENT (2)	(D) 270kHz 400Hz, 30% mod	(B)	270kHz	TC2	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (8) and (9) several times.							

REGLAGES

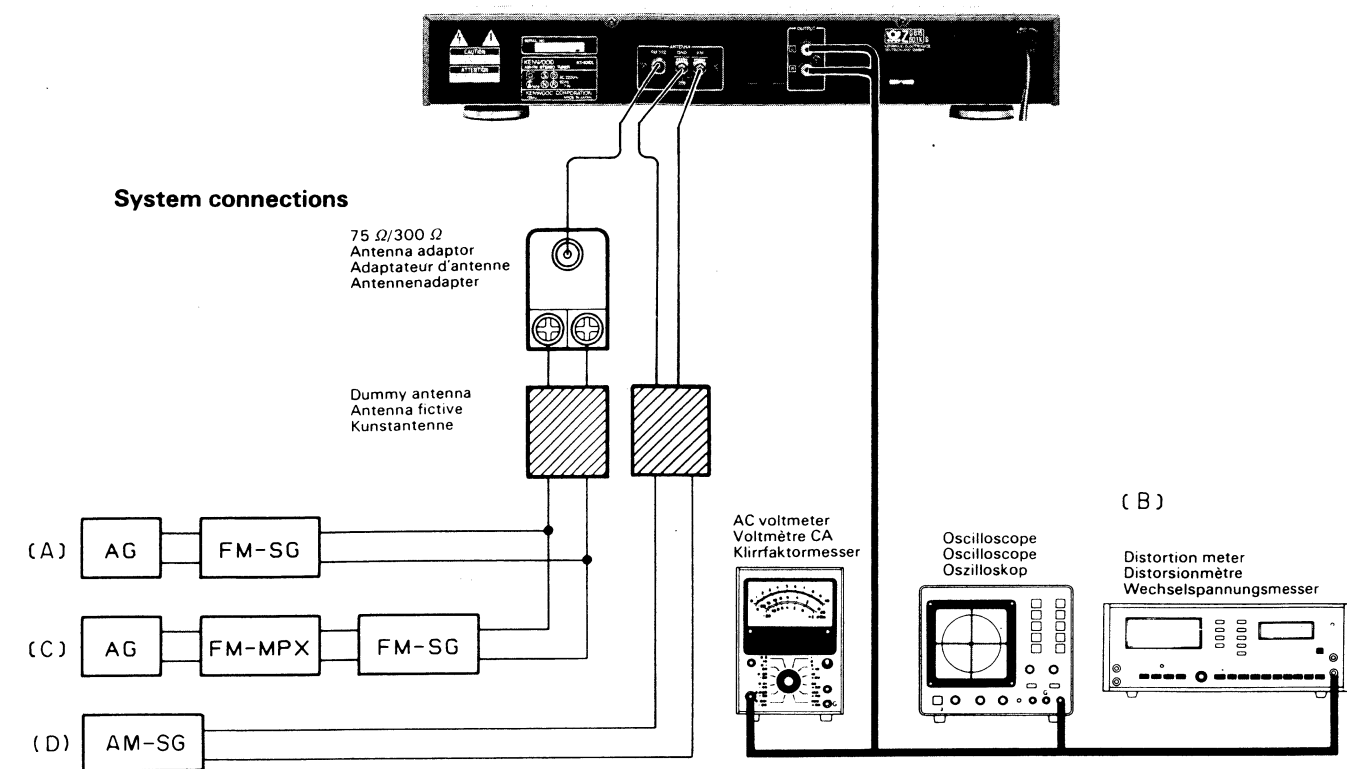
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
Sauf en cas d'indications spéciales, régler chaque commutateur comme suit:							
SELECTEUR: FM MODE: FM MODE/AUTO							
1	BORD DE BANDE (1)	—	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	87,5MHz	L7	2,5V	(a)
2	BORD DE BANDE (2)	—	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	108,0MHz	TC1	8,0V	(a)
Répéter les points 1 et 2 plusieurs fois.							
3	ALIGNEMENT HT	(A) 98,0MHz 1kHz.±75kHz dév	(B)	MONO 98,0MHz	Contrôle L2,3,4	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
4	DISCRIMINATEUR	(A) 98,0MHz 1kHz.±75kHz dév 60dBμ(Entrée ANT)	Relier un voltmètre CC entre les TP3 et TP4.	MONO 98,0MHz	L9	0V	(b)
5	VCO	(A) 98,0MHz 0 dév 60dBμ(Entrée ANT)	Relier une résistance de 330kΩ à TP8. Raccorder un compteur de fréquence à une résistance par l'intermédiaire d'un voltmètre CA.	98,0MHz	VR3	19,00kHz	(c)
6	SEPARATION (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz dév Selection:L ou R 60dBμ(Entrée ANT)	(B)	98,0MHz	L8	Diaphonie minimale.	
7	NIVEAU D'ACORDER	(A) 98,0MHz 0 dév 18dBμ(Entrée ANT) 300Ω 14dBμ(Entrée ANT) 75Ω	—	AUTO ou MONO 98,0MHz	VR2	Ajuster VR2 et arrêter le mouvement de VR2 au moment où le FL1(TUNED)s'allume.	
SECTION MA Laisser l'antenne bouche MA installée. SELECTEUR: AM (KT-1010) ou MW (KT-1010L)							
(1)	BORD DE BANDE (1)	—	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	530kHz (531kHz)	L16	1,5V	(a)
(2)	BORD DE BANDE (2)	—	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	1610kHz (1602kHz)	TC5	8,0V	(a)
Répéter les points (1) et (2) plusieurs fois.							
(3)	ALIGNEMENT HT (1)	(D) 630kHz 400Hz.30% mod	(B)	630kHz	L14	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT HT (2)	(D) 1440kHz 400Hz.30% mod	(B)	1440kHz	TC3	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(5)	NIVEAU D'ACORDER	(A) 1000kHz 36dBμ(Entrée ANT)	—	—	VR1	Ajuster VR1 et arrêter le mouvement de VR1 au moment où le FL1(TUNED)s'allume.	
Répéter les points (3) et (4) plusieurs fois.							
SECTION GO (KT-1010L seulement) Laisser l'antenne bouche MA installée. SELECTEUR: LW							
(6)	BORD DE BANDE (1)	—	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	153kHz	L15	1,5V	(a)
(7)	BORD DE BANDE (2)	—	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	281kHz	TC4	8,0V	(a)
Répéter les points (6) et (7) plusieurs fois.							
(8)	ALIGNEMENT HT (1)	(D) 162kHz 400Hz.30% mod	(B)	162kHz	L13	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(9)	ALIGNEMENT HT (2)	(D) 270kHz 400Hz.30% mod	(B)	270kHz	TC2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points (8) et (9) plusieurs fois.							

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPfangSABTEILUNG Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: SELECTOR: FM MODE:FM MODE/AUTO							
1	BANDKANTE (1)	—	Einen Gleichspannungsmesser zwischen TP1(VT) und TP2(GND) anschließen.	87,5MHz	L7	2,5V	(a)
2	BANDKANTE (2)	—	Einen Gleichspannungsmesser zwischen TP1(VT) und TP2(GND) anschließen.	108,0MHz	TC1	8,0V	(a)
Abstimmungen 1 und 2 mehrere Male wiederholen.							
3	EMPFANGS-BEREICH-ABSTIMMUNGEN	(A) 98,0MHz 1kHz.±75kHz Hub	(B)	MONO 98,0MHz	Eingangs- stufe L2,3,4	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
4	DISKRIMINATOR	(A) 98,0MHz 1kHz.±75kHz Hub 60dBμ(ANT Eingang)	Einen Gleichspannungsmesser zwischen TP3 und TP4 anschließen.	MONO 98,0MHz	L9	0V	(b)
5	SPANNUNGS-GEREGELTER OZILLATOR	(A) 98,0MHz 0 Hub 60dBμ(ANT Eingang)	Einen 330kΩ Widerstand zu TP8 anschließen. Einen Frequenzzähler über einen Wechselspannungsmesser an den Widerstand anschließen.	98,0MHz	VR3	19,00kHz	(c)
6	STEREO KANAL TRENNUNG	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler: L oder R 60dBμ(ANT-Eingang)	(B)	98,0MHz	L8	Minimal Übersprechen.	
7	ABSTIMM	(A) 98,0MHz 0 Hub 18dBμ(ANT-Eingang) 300Ω 14dBμ(ANT-Eingang) 75Ω	—	AUTO oder MONO 98,0MHz	VR2	Den Pegel widerstand aufdrehen, und dem VR2 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird.	
MW-EMPfangSABTEILUNG Die MW-Rahmenantenne angebracht lassen. SELECTOR: AM (KT-1010) oder MW (KT-1010L)							
(1)	BANDKANTE (1)	—	Einen Gleichspannungsmesser zwischen TP1(VT) und TP2(GND) anschließen.	530kHz (531kHz)	L16	1,5V	(a)
(2)	BANDKANTE (2)	—	Einen Gleichspannungsmesser zwischen TP1(VT) und TP2(GND) anschließen.	1610kHz (1602kHz)	TC5	8,0V	(a)
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (1)	(D) 630kHz 400Hz.30% mod	(B)	630kHz	L14	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1440kHz 400Hz.30% mod	(B)	1440kHz	TC3	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(5)	ABSTIMM PEGEL	(A) 1000kHz 36dBμ(ANT-Eingang)	—	—	VR1	Den Pegel widerstand aufdrehen, und dem VR1 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
LW-EMPfangSABTEILUNG (nur KT-1010L) Die MW-Rahmenantenne angebracht lassen. SELECTOR: LW							
(6)	BANDKANTE (1)	—	Einen Gleichspannungsmesser zwischen TP1(VT) und TP2(GND) anschließen.	153kHz	L15	1,5V	(a)
(7)	BANDKANTE (2)	—	Einen Gleichspannungsmesser zwischen TP1(VT) und TP2(GND) anschließen.	281kHz	TC4	8,0V	(a)
Abstimmungen (6) und (7) mehrere Male wiederholen.							
(8)	HF-ABGLEICH (1)	(D) 162kHz 400Hz.30% mod	(B)	162kHz	L13	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(9)	HF-ABGLEICH (2)	(D) 270kHz 400Hz.30% mod	(B)	270kHz	TC2	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (8) und (9) mehrere Male wiederholen.							

KT-1010/L

ADJUSTMENT/REGLAGES/ABGLEICH



VOLTAGE TABLES

TUNER UNIT (X05-370X-XX)

IC1	1	2.2V
	2,3	2.3V
	4	—
	5	10.4V
	6	10.5V
	7	12V
	8	0V
	9	3.7V
	10	2.8V
	11	1.5V
	12	1.4V
	13,14	1.7V
	15	2.2V
	16	1.4V
	18,19	0V
	20	3.0V
	21,22	2.6V

IC2	1	12V
	2	2.6V
	3	6.1V
	4,5	9.6V
	6,7	4.9V
	8	—
	9	0.7V
	10	2.6V
	11	2.5V
	12-14	2.6V
	15	3.3V
	16	0V

IC3	1	0.94V
	2	1.6V
	3-5	0V
	6,7	—
	8	LW: 5V MW: 0V
	9	FM: 0V MW: 5V
	10	0V
	11	2.8V
	12,13	5.3V
	14-18	—

IC4	1-4	—
	5	-22V
	6-20	—
	21	5V
	22-42	—

Q1	G1	0V
	G2	0V
	D	—
	S	—

Q2	E	—
	C	12V
	B	2.1V

Q3	E	4.7V
	C	10V
	B	5.3V

Q4	E	—
	C	5.8V
	B	0.6V

Q5	G	2.1V
	D	—
	S	10V

Q6	E	1.4V
	C	10.4V
	B	—

Q7	E	0.6V
	C	3V
	B	1.2V

Q8	E	—
	C	3V
	B	0.6V

Q9	G	—
	D	3V
	S	—

Q10,12,14,15,18, 19,22-28,30, 34-36	E	—
	C	—
	B	—

Q11	E	—
	C	0V
	B	—

Q13	E	2.4V
	C	12V
	B	3V

Q16,17	G	—
	D	2.6V
	S	—

Q20	E	12V
	C	—
	B	—

Q26,27	E	12.5V
	C	—
	B	—

Q28	E	12.5V
	C	18V
	B	—

Q29	E	18V
	C	—
	B	—

Q31	E	5.6V
	C	—
	B	—

Q32,33	E	—
	C	5V
	B	—

Q37	E	5V
	C	—
	B	—

Q3	E	4.7V
	C	10V
	B	5.3V

Q4	E	—
	C	5.8V
	B	0.6V

Q5	G	2.1V
	D	—
	S	10V

Q6	E	1.4V
	C	10.4V
	B	2.1V

Q7	E	0.6V
	C	3V
	B	1.2V

IC2	1	12V
	2	2.6V
	3	6.1V
	4,5	9.6V
	6,7	4.9V
	8	—
	9	0.7V
	10	2.6V
	11	2.5V
	12-14	2.6V
	15	3.3V
	16	0V

IC3	1	—
	2-4	0V
	5	1.9V
	6	0.6V
	7	1.1V
	8-10	—
	11	2.8V
	12	5.2V
	13	0V
	14	—

IC4	1-4	—
	5	-22V
	6-20	—
	21	5V
	22-42	—

Q1	G1	0V
	G2	0V
	D	—
	S	—

Q2	E	—
	C	12V
	B	2.1V

Q3	E	4.7V
	C	10V
	B	5.3V

Q4	E	—
	C	5.8V
	B	0.6V

Q5	G	2.1V
	D	—
	S	10V

Q6	E	1.4V
	C	10.4V
	B	2.1V

Q7	E	0.6V
	C	3V
	B	1.2V

Q8	E	—
	C	3V
	B	0.6V

Q9	E	—
	C	3V
	B	—

Q10,12,15,18,19, 22-24,30,34-36	E	—
	C	—
	B	—

Q11	E	—
	C	0V
	B	—

Q13	E	2.4V
	C	12V
	B	3V

Q14	E	0V
	C	—
	B	—

Q16,17	G	—
	D	2.6V
	S	—

Q20,25,27	E	12.5V
	C	—
	B	—

Q26	E	12.5V
	C	LW: 10V MW: 10V
	B	—

Q28	E	12.5V
	C	18V
	B	—

Q29	E	18V
	C	—
	B	—

Q31	E	5.6V
	C	—
	B	—

Q32,33	E	—
	C	5V
	B	—

Q37	E	5V
	C	—
	B	—

PC BOARD (Component side view)

TUNER UNIT (X05-370X-XX)

TUNER UNIT
(X05-370X-XX)

Ref. No.	IC	Q	Address
1	2C	2	2C
2	2D	3	2D
3	2D	4	2D
4	2D	5	2D
5	2D	6	2D
6	2E	7	2E
7	2E	8	2E
8	2E	9	2E
9	2E	10	2E
10	3F	11	3F
11	3F	12	3F
12	4F	13	4F
13	3E	14	3E
14	3C	15	3C
15	3C	16	3C
16	4D	17	4D
17	3D	18	3D
18	5D	19	5D
19	6C	20	6C
20	6C	21	6C
21	5C	22	5C
22	5C	23	5C
23	3F	24	3F
24	3F	25	3F
25	2F	26	2F
26	2F	27	2F
27	5E	28	5E
28	5E	29	5E
29	5E	30	5E
30	5E	31	5E
31	5E	32	5E
32	6E	33	6E
33	7F	34	7F
34	7F	35	6G
35	6G	36	6G
36	6G	37	6G
37	6G	38	4E
38	4E	39	5D
39	5D	40	2E
40	2E	41	5G

DC voltmeter
(a) BAND EDGE (1)
FM section
2.5 V
AM-MW section
AM-LW section
1.5 V
(a) BAND EDGE (2)
8.0 V

DC voltmeter
(b) DISCRIMINATOR
0 V

AC OUTLET

AC220V
60Hz

AC voltmeter

Frequency counter

19.00 kHz

FRONT

KT-1010L(E)

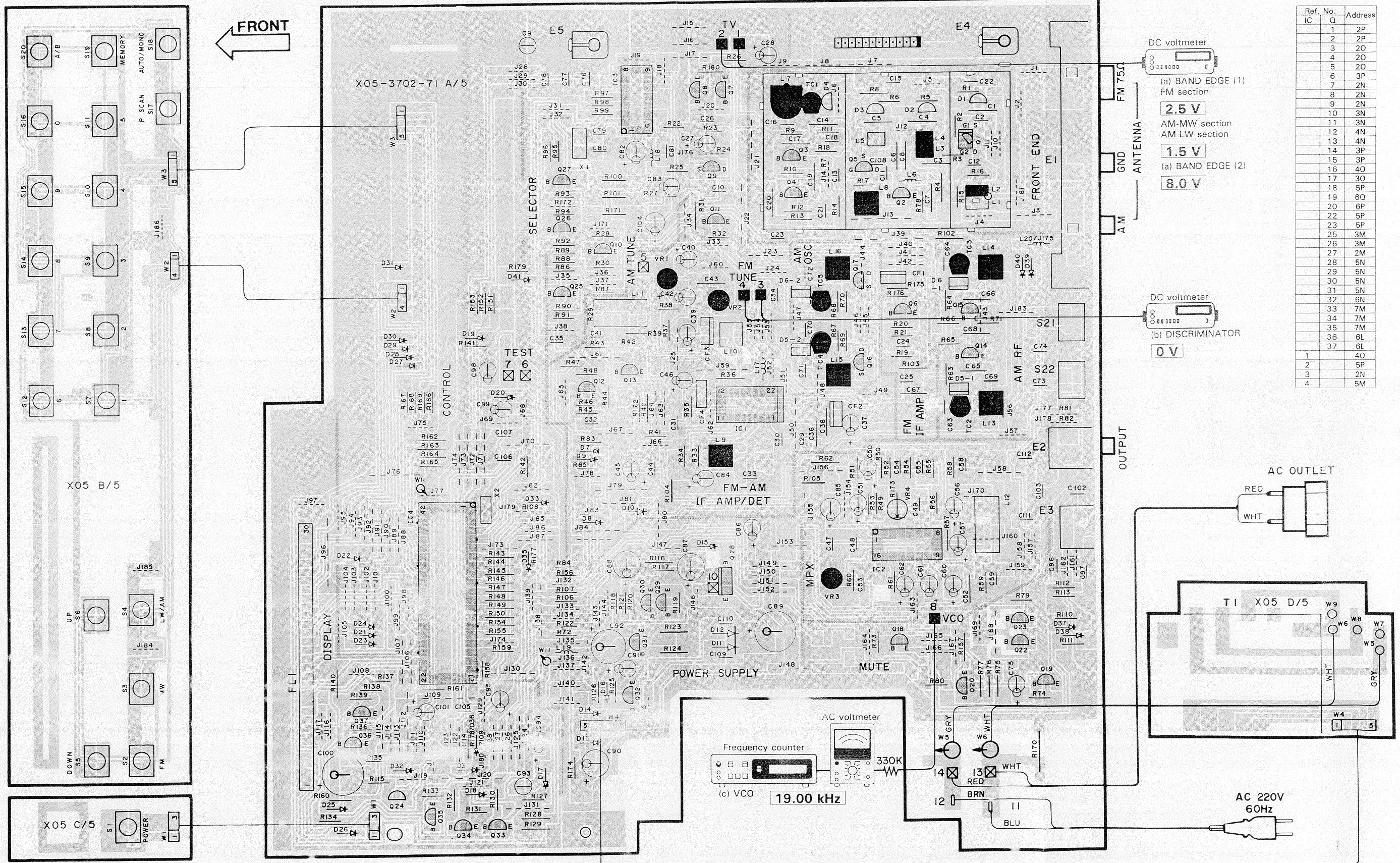
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view)

TUNER UNIT (X05-370X-XX)

TUNER UNIT (X05-370X-XX)

Ref. No.	Q	Address
1	2P	
2	2P	
3	2O	
4	2O	
5	2O	
6	3P	
7	2N	
8	2N	
9	2N	
10	3N	
11	3N	
12	4N	
13	4N	
14	3P	
15	3P	
16	4O	
17	3O	
18	5P	
19	6Q	
20	6P	
22	5P	
23	5P	
25	3M	
26	3M	
27	2M	
28	5N	
29	5N	
30	5N	
31	5N	
32	6N	
33	7M	
34	7M	
35	7M	
36	6L	
37	6L	
1	4O	
2	5P	
3	2N	
4	5M	



KT-1010L (E)

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)

TUNER UNIT (X05-374X-XX) JAPAN MADE

(X05-372X-XX) SINGAPORE MADE

TUNER UNIT
(X05-374X-XX)
(X05-372X-XX)

Ref. No.	IC	Q	Address
1	2V		
2	2W		
3	2W		
4	2W		
5	2W		
6	3W		
7	2X		
8	2X		
9	2X		
10	3Y		
11	3X		
12	4Y		
13	4Y		
14	3V		
15	3V		
16	3W		
17	3W		
18	5W		
19	6V		
20	6V		
22	5V		
23	5V		
25	3Y		
26	3Y		
27	2Y		
28	5X		
29	5X		
30	5X		
31	5X		
32	6Y		
33	7Y		
34	7Z		
35	7Z		
36	6Z		
37	6Z		
38	3Y		
39	2Y		
1	4X		
2	5W		
3	2X		
4	5Z		

DC voltmeter
0 0.00000 0

(a) BAND EDGE (1)
FM section

2.5 V

AM-MW section
AM-LW section

1.5 V

(a) BAND EDGE (2)

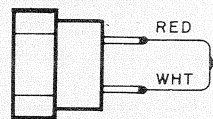
8.0 V

DC voltmeter
0 0.00000 0

(b) DISCRIMINATOR

0 V

AC OUTLET

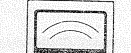


OUTPUT

AC 220V
50Hz



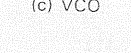
AC voltmeter



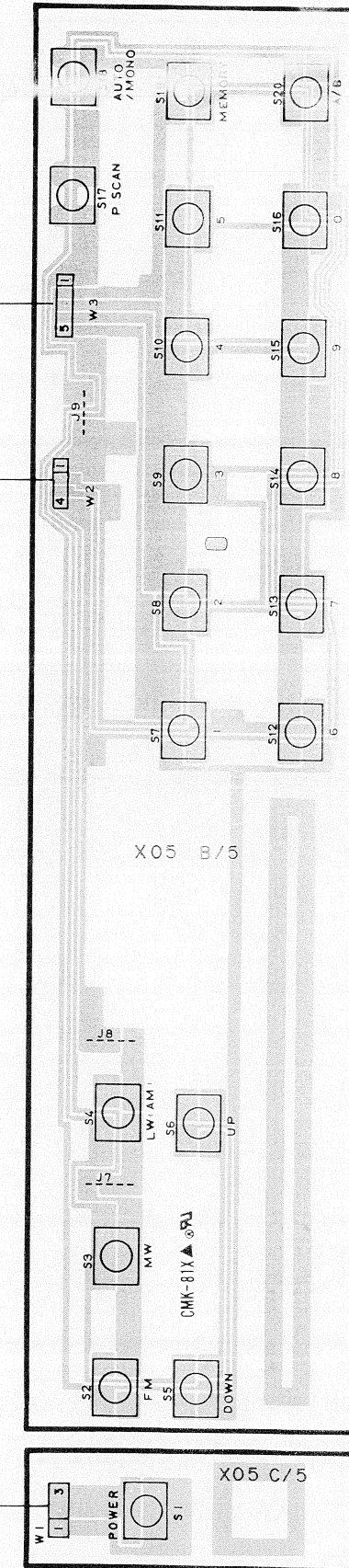
Frequency counter



(c) VCO



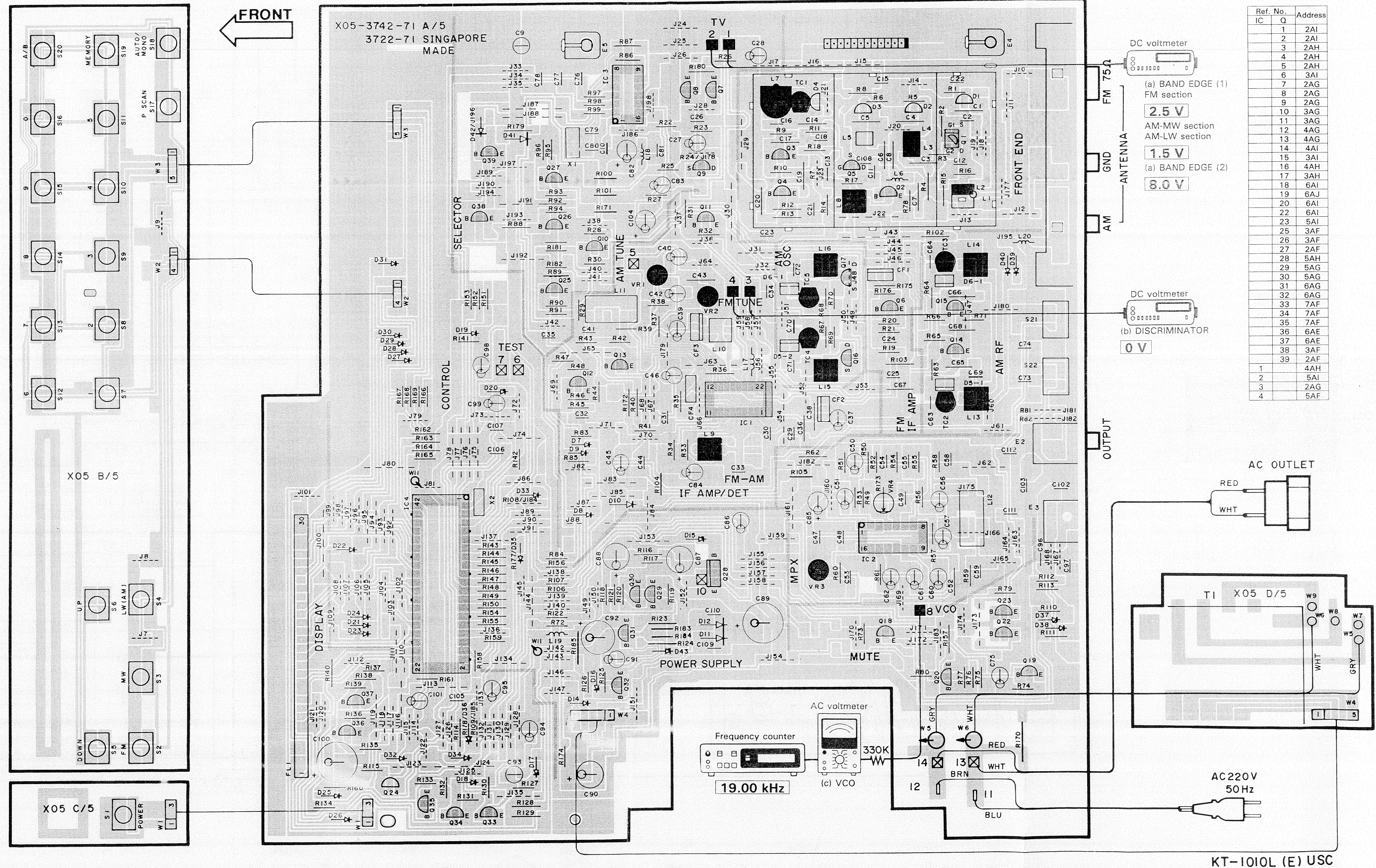
FRONT

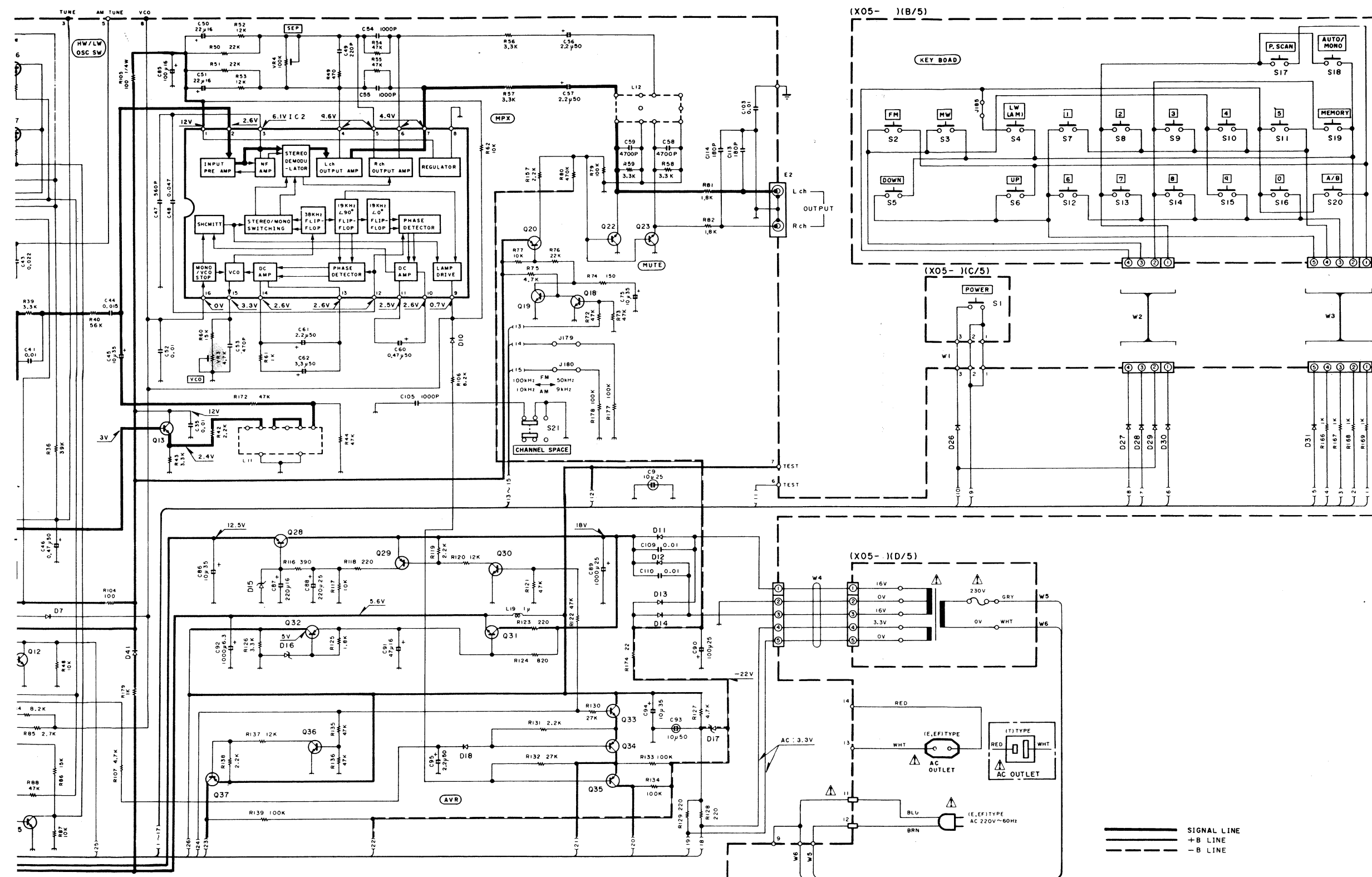


PC BOARD (Foil side view)

TUNER UNIT (X05-374X-XX) JAPAN MADE

(X05-372X-XX) SINGAPORE MADE





DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen.

KT-1010L(E)
(SANYO)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

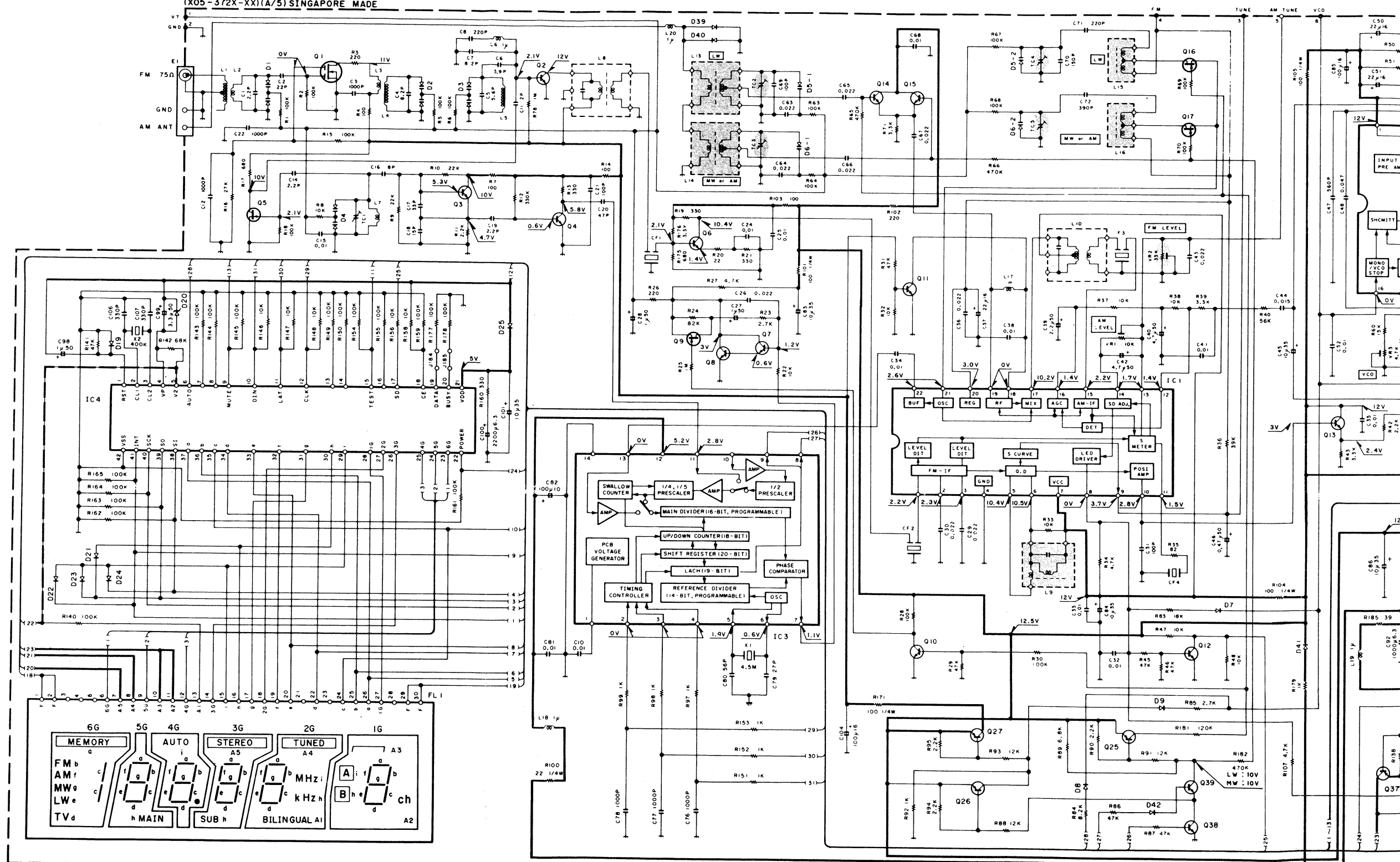
Y07-3170-10

KT-1010/L
KENWOOD

(X05-374X-XX)(A/5) JAPAN MADE
(X05-372X-XX)(A/5) SINGAPORE MADE

	JAPAN MADE	SINGAPORE MADE
	T, E	EF
X05-372X-XX	NO	NO
X05-374X-XX	2-71	2-73

- IC1 LA1265
IC2 AN7470
IC3 CX7925B
IC4 μ PD7538AC-041
- Q1 3SK73(GR)
Q2 2SC1923(O)
Q3,4 2SC1923
Q5 2SK161(Y, GR)
Q6 2SC1923(R, O)
Q7,8 2SC1845(F, E)
Q9,16,17 2SK163(L, M)
Q10~15, 18, 19, 30, 33, 36, 38, 39 2SC945(A)(Q, P), 2SC1740S(Q, R)
- Q20, 25~27, 29, 32, 34, 35, 37 2SA733(A)(Q, P), 2SA933S(Q, R)
- Q22, 23 2SD1302(S, T)
Q28 2SD1266(O, P)
Q31 2SC2003(L, K)
- D1~4 KVI310-4
D5, 6 KVI236(22)
D7~10, 18, 19, 21~31, 39~42 ISS133 or HSS104
D11, 12 S556B or IN4004
D13, 14 ISS131 or HSS104A
D15 RD13ES(B2), HZS13N(B2) or BZX55-C13
D16 RD5.6ES(B2), HZS5.6N(B2) or BZX55-C5V6
D17 RD5.1ES(B), HZS5.1N(B) or BZX55-C5V1
D20 RD10ES(B), HZS10N(B) or BZX55-C10
D43 RD6.2ES(B2), HZS 6.2N(B2) or BZX-55-C6V2
- FL1 FIP88RM7 or CPF2232 GR



JA101
JC501
2SA733
2SC1845
2SC1923
2SC2003
2SD1302

2SD1266

2SA933S
2SC1740S

AN7470

μ PD7538AC-041

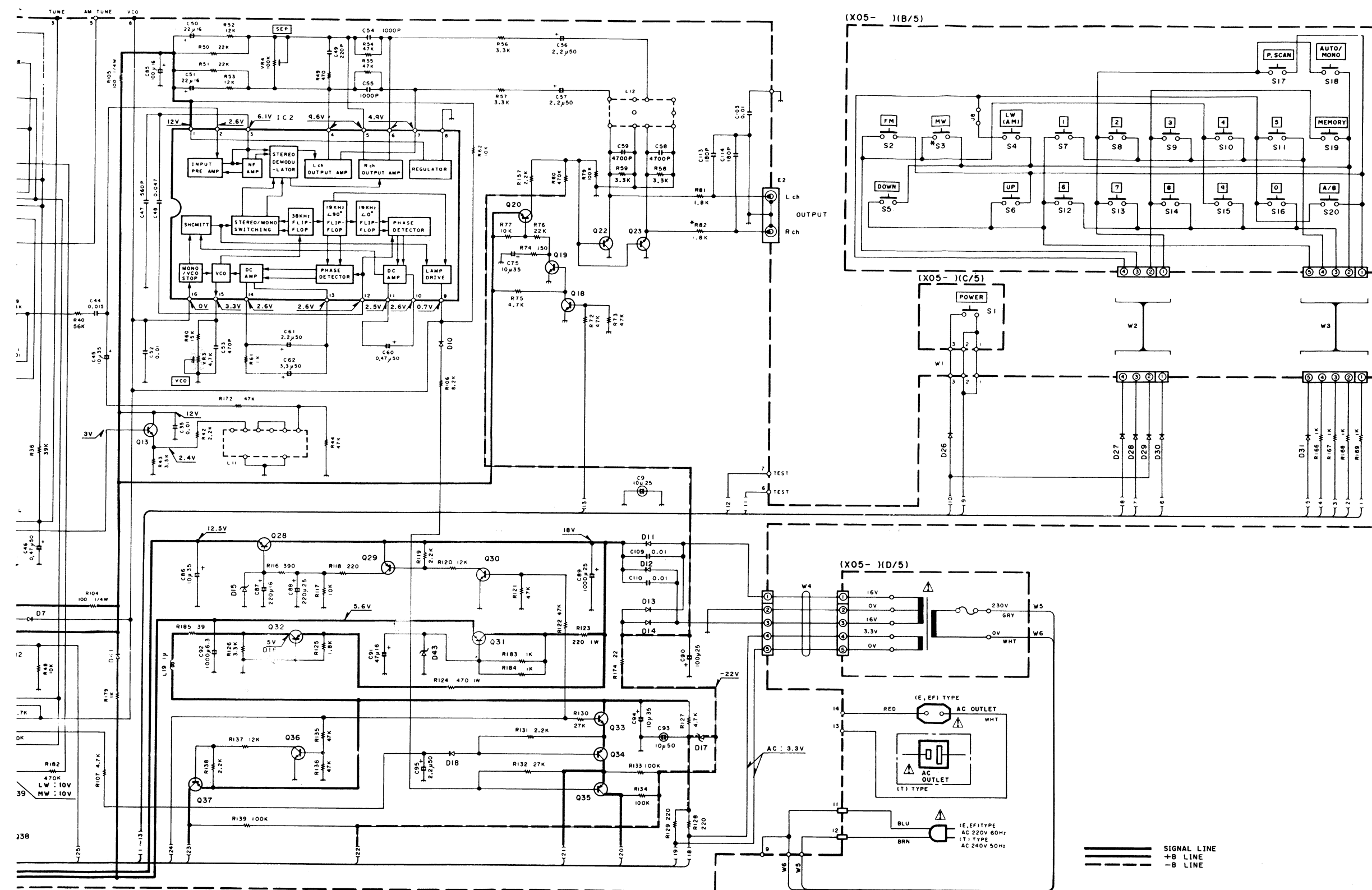
2SK163
2SK364

3SK73

2SK161

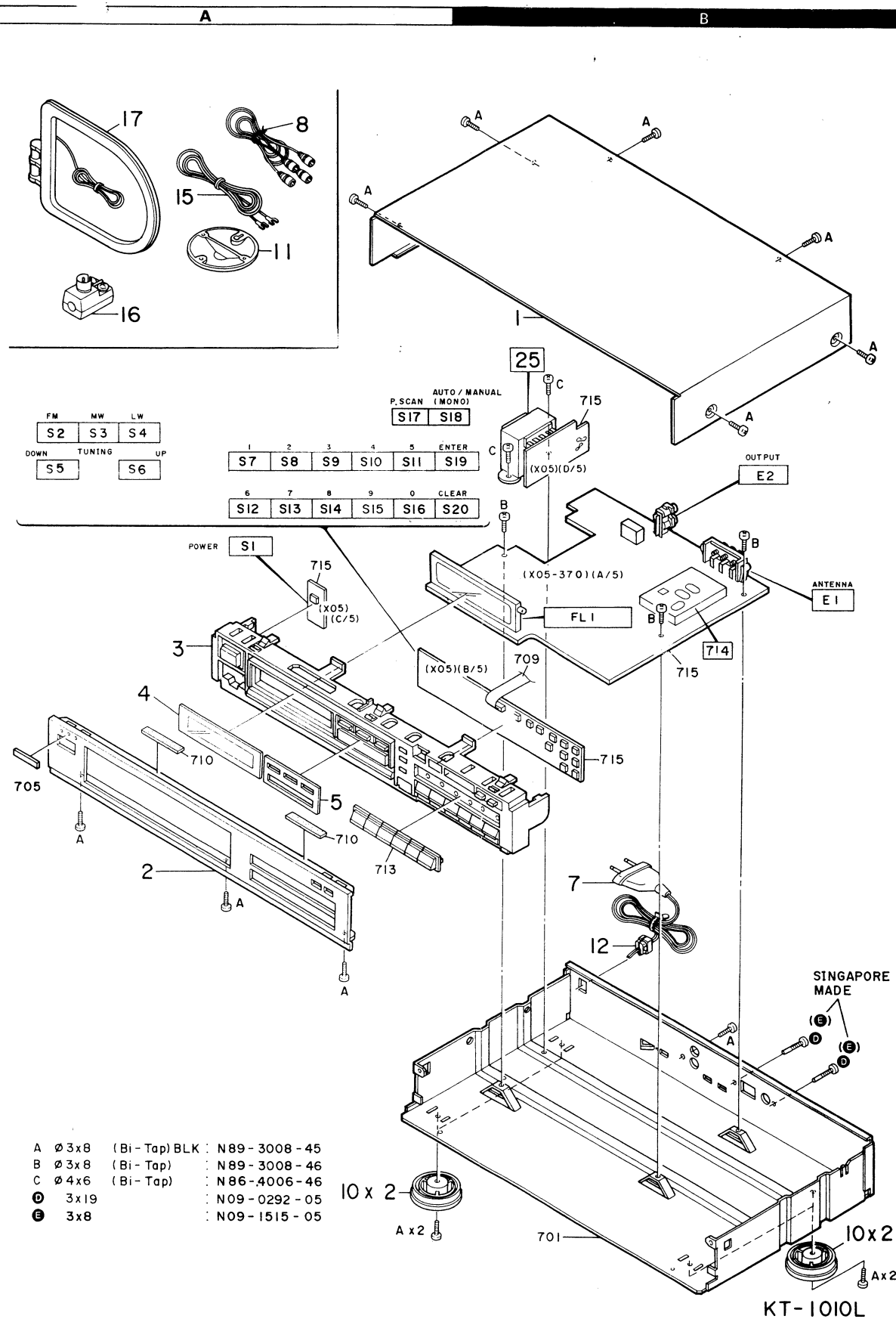
CX7925B

LA1265



KT-1010/L

EXPLODED VIEW



KT-1010/L

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KT-1010						
1	1B		A01-1770-01	METALLIC CABINET	TE	
1	1B	*	A01-1771-01	METALLIC CABINET	EE	
2	2A		A20-5807-02	PANEL		
3	2A		A22-1069-01	SUB PANEL		
4	2A		B03-2514-04	DRESSING PLATE		
5	2A		B03-2534-04	DRESSING PLATE		
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0139-03	WARRANTY CARD	EE	
-			B46-0143-03	WARRANTY CARD	T	
-			B50-9413-00	INSTRUCTION MANUAL (ENGLISH)	TE	
-			B50-9415-00	INSTRUCTION MANUAL (FRENCH)	E	
-		*	B50-9588-00	INSTRUCTION MANUAL (ENGLISH)	EE	
-		*	B50-9590-00	INSTRUCTION MANUAL (FRENCH)	EE	
-		*	B50-9591-00	INSTRUCTION MANUAL (G.D.I)	EE	
-		*	B50-9706-00	INSTRUCTION MANUAL (G.D.I)	E	
-			B58-0803-13	CAUTION CARD	EEE	
△ 7	2B		E30-0459-05	AC POWER CORD	EE	
△ 7	2B		E30-1416-05	AC POWER CORD	T	
8	1A		E30-0505-05	AUDIO CORD		
-			H01-8494-04	ITEM CARTON CASE	TE	
-		*	H01-8495-04	ITEM CARTON CASE	EE	
-			H10-3780-02	POLYSTYRENE FOAMED FIXTURE	TE	
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
10	3A,3B		J02-1024-05	FOOT		
11	1A		J19-2815-04	ANTENNA HOLDER		
△ 12	3B		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
A	1B,3B		N89-3008-45	BINDING HEAD TAPTITE SCREW		
B	2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
C	1B	*	N86-4006-46	BINDING HEAD TAPTITE SCREW		
D	3B		N09-0292-05	STEPPED SCREW (3X19)		
15	1A		T90-0132-05	T TYPE ANTENNA		
16	1A		T90-0136-05	ANTENNA ADAPTOR	EE	
17	1A		T90-0153-05	LOOP ANTENNA	TE	
17	1A		T90-0173-05	LOOP ANTENNA		
KT-1010L						
1	1B		A01-1622-01	METALLIC CABINET	TE	S
1	1B		A01-1770-01	METALLIC CABINET	EE	J
1	1B	*	A01-1771-01	METALLIC CABINET		
2	2A		A20-5807-02	PANEL		
3	2A		A22-1069-01	SUB PANEL		
4	2A		B03-2514-04	DRESSING PLATE		J
4	2A		B03-2534-04	DRESSING PLATE		J
5	2A		B03-2540-04	DRESSING PLATE		S
5	2A		B03-2544-04	DRESSING PLATE		S
-			B46-0122-13	WARRANTY CARD	E	J
-			B46-0139-03	WARRANTY CARD	EE	
-			B46-0143-03	WARRANTY CARD		S
-			B46-0143-03	WARRANTY CARD	T	J
-			B50-9413-00	INSTRUCTION MANUAL (ENGLISH)	TE	J
-		*	B50-9415-00	INSTRUCTION MANUAL (FRENCH)	E	J

E: Scandinavia & Europe K: USA P: Canada W: Europe

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia EF: FRANCE MADE

J: JAPAN MADE
S: SINGAPORE MADE

△ indicates safety critical components.

KT-1010/L

PARTS LIST

* New Parts

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Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
-		*	B50-9588-00	INSTRUCTION MANUAL (ENGLISH)	EE	
-		*	B50-9590-00	INSTRUCTION MANUAL (FRENCH)	EE	
-		*	B50-9591-00	INSTRUCTION MANUAL (G.D.I)	EE	
-		*	B50-9601-00	INSTRUCTION MANUAL	E	S
-		*	B50-9706-00	INSTRUCTION MANUAL (G.D.I)		J
-			B58-0803-13	CAUTION CARD	EEE	J
7	2B		E30-0459-05	AC POWER CORD	EEE	J
7	2B		E30-1416-05	AC POWER CORD	T	S
8	1A		E30-0505-05	AUDIO CORD		J
-			H01-8494-04	ITEM CARTON CASE	TE	J
-		*	H01-8495-04	ITEM CARTON CASE	EE	
-		*	H01-8502-04	ITEM CARTON CASE	TE	S
-			H10-3780-02	POLYSTYRENE FOAMED FIXTURE		J
-			H10-3819-02	POLYSTYRENE FOAMED FIXTURE		S
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
10	3A,3B		J02-1024-05	FOOT		
11	1A		J19-2815-04	ANTENNA HOLDER		
△ 12	3B		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
A	1B,3B		N89-3008-45	BINDING HEAD TAPTITE SCREW		
B	2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
C	1B	*	N86-4006-46	BINDING HEAD TAPTITE SCREW		
D	3B		N09-0292-05	STEPPED SCREW (3X19)		S
E	3B		N09-1515-05	TAPPING SCREW (3X8)		
15	1A		T90-0132-05	T TYPE ANTENNA		
16	1A		T90-0136-05	ANTENNA ADAPTOR		
17	1A		T90-0153-05	LOOP ANTENNA	EE	J
17	1A		T90-0173-05	LOOP ANTENNA	TE	S
17	1A		T90-0174-05	LOOP ANTENNA		
TUNER UNIT (X05-370X-XX: 2-71: T, E, 2-73: EF)						
C1			C91-0713-05	CERAMIC 2.2PF	K	
C2			CC45FSL1H220J	CERAMIC 22PF	J	
C3			C91-0757-05	CERAMIC 1000PF	K	
C4			C91-0720-05	CERAMIC 8.2PF	K	
C5			C91-0718-05	CERAMIC 5.6PF	K	
C6			C91-0716-05	CERAMIC 3.9PF	K	
C7			C91-0720-05	CERAMIC 8.2PF	K	
C8			C91-0749-05	CERAMIC 220PF	K	
C9			C90-1332-05	NP-ELEC 10UF	25WV	
C11			CC45FSL1H020C	CERAMIC 2.0PF	C	
C12			CK45FB1H102K	CERAMIC 1000PF	K	
C14			C91-0713-05	CERAMIC 2.2PF	K	
C15			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C16			CC45FUJ1H080D	CERAMIC 8.0PF	D	
C17			C91-0733-05	CERAMIC 33PF	J	
C18			CC45FSL1H150J	CERAMIC 15PF	J	
C19			C91-0713-05	CERAMIC 2.2PF	K	
C20			C91-0737-05	CERAMIC 47PF	J	
C21			CC45FSL1H101J	CERAMIC 100PF	J	
C22			CK45FB1H102K	CERAMIC 1000PF	K	
C24 ,25			CK45FF1H103Z	CERAMIC 0.010UF	Z	

E: Scandinavia & Europe K: USA P: Canada W: Europe

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia EF: FRANCE MADE

J: JAPAN MADE
S: SINGAPORE MADE

△ indicates safety critical components.

PARTS LIST

* New Parts

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C26			CK45FF1H223Z	CERAMIC 0.022UF Z		
C27 ,28			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C29 ,30			CK45FF1H223Z	CERAMIC 0.022UF Z		
C31			CC45FSL1H101J	CERAMIC 100PF J		
C32 -35			CK45FF1H103Z	CERAMIC 0.010UF Z		
C36			C91-0085-05	CERAMIC 0.022UF N		
C37			CE04KW1C220M	ELECTR0 22UF 16WV		
C38			C91-0769-05	CERAMIC 0.01UF M		
C39		*	CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C40			CE04KW1H4R7M	ELECTR0 4.7UF 50WV		
C41			CK45FF1H103Z	CERAMIC 0.010UF Z		
C42			CE04KW1H4R7M	ELECTR0 4.7UF 50WV		
C43			C91-0085-05	CERAMIC 0.022UF N		
C44			CF92FV1H153J	MF 0.015UF J		
C45			CE04KW1V100M	ELECTR0 10UF 35WV		
C46			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C47			CK45FB1H561K	CERAMIC 560PF K		
C48			CF92FV1H473J	MF 0.047UF J		
C49			CC45FSL1H221J	CERAMIC 220PF J		
C50 ,51			CE04KW1C220M	ELECTR0 22UF 16WV		
C52			C91-0769-05	CERAMIC 0.01UF M		
C53			CC93FCH1H471J	CERAMIC 470PF J		
C54 ,55			CK45FB1H102K	CERAMIC 1000PF K		
C56 ,57		*	CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C58 ,59			CF92FV1H472J	MF 700PF J		
C60			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C61		*	CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C62			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		
C63 ,64			CK45FF1H223Z	CERAMIC 0.022UF Z		
C65 -67			C91-0085-05	CERAMIC 0.022UF N		
C68			C91-0769-05	CERAMIC 0.01UF M		
C69			CC45FTH1H101J	CERAMIC 100PF J		
C70			CC45FCH1H151J	CERAMIC 150PF J		
C71			CC93FCH1H221J	CERAMIC 220PF J		
C72			CC93FCH1H391J	CERAMIC 390PF J		
C75			CE04KW1V100M	ELECTR0 10UF 35WV		
C76 -78			CK45FB1H102K	CERAMIC 1000PF K		
C79 ,80			CC45FCH1H220J	CERAMIC 22PF J		
C81			CK45FF1H103Z	CERAMIC 0.010UF Z		
C82			CE04KW1A101M	ELECTR0 100UF 10WV		
C83 ,84		*	CE04KW1V100M	ELECTR0 10UF 35WV		
C85			CE04KW1C101M	ELECTR0 100UF 16WV		
C86			CE04KW1V100M	ELECTR0 10UF 35WV		
C87		*	CE04KW1C221M	ELECTR0 220UF 16WV		
C88			CE04KW1E221M	ELECTR0 220UF 25WV		
C89			CE04KW1E102M	ELECTR0 1000UF 25WV		
C90			CE04KW1E101M	ELECTR0 100UF 25WV		
C91			CE04KW1C470M	ELECTR0 47UF 16WV		
C92			CE04KW0J102M	ELECTR0 1000UF 6.3WV		
C93			C90-1400-05	NP-ELEC 10UF 50WV		
C94			CE04KW1V100M	ELECTR0 10UF 35WV		
C95		*	CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C96			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C97			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		
C98			CE04KW0J222M	ELECTR0 2200UF 6.3WV		
C100		*				

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C101			CE04KW1V100M	ELECTR0 10UF 35WV		
C103			CK45FF1H103Z	CERAMIC 0.010UF Z		
C104		*	CE04KW1C101M	ELECTR0 100UF 16WV		
C106,107			CC45FSL1H331J	CERAMIC 330PF J		
C109,110			CK45FF1H103Z	CERAMIC 0.010UF Z		
C113,114			CC45FSL1H181J	CERAMIC 180PF J		
TC1			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF)		
TC2			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF)		
TC3			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF)		
TC4			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF)		
TC5			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF)		
E1	2B		E20-0318-05	SCREW TERMINAL BOARD(2P)		
E2	1B		E13-0235-05	PHONE JACK (2P)		
△ 25	1B		L01-5832-05	POWER TRANSFORMER		
△ 25	1B		L01-8642-05	POWER TRANSFORMER		
CF1 ,2			L72-0536-05	CERAMIC FILTER		
CF3			L72-0099-05	CERAMIC FILTER		
CF4			L72-0096-05	CERAMIC FILTER		
L1			L31-0581-05	FM-RF COIL		
L2			L31-0520-05	FM-RF COIL		
L3			L31-0580-05	FM-RF COIL		
L4 ,5			L31-0579-05	FM-RF COIL		
L6			L40-1092-17	SMALL FIXED INDUCTOR(1UH,M)		
L7			L32-0318-05	FM OSCILLATING COIL		
L8			L30-0427-15	FM IFT		
L9			L30-0439-15	FM IFT		
L10			L30-0362-05	AM IFT		
L11			L79-0125-05	LC FILTER		
L12			L79-0750-05	LC FILTER		
L13			L31-0499-05	LW-RF COIL		
L14			L31-0509-05	MW-RF COIL		
L15			L32-0288-05	LW OSCILLATING COIL		
L16			L32-0277-15	MW OSCILLATING COIL		
L17			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L18 -20			L40-1092-17	SMALL FIXED INDUCTOR(1UH,M)		
X1			L77-1122-05	CRYSTAL RESONATOR		
X2			L78-0202-05	RESONATOR (400KHZ)		
R100			RD14GB2E220J	FL-PR00F RD 22 J 1/4W		
R101			RD14GB2E101J	FL-PR00F RD 100 J 1/4W		
R104,105			RD14GB2E101J	FL-PR00F RD 100 J 1/4W		
R123			RS14KB3A221J	FL-PR00F RS 220 J 1W		
R124			RS14KB3A821J	FL-PR00F RS 820 J 1W		
R171			RD14GB2E101J	FL-PR00F RD 100 J 1/4W		
VR1			R12-3126-05	TRIMMING P0T. (10K)		
VR2			R12-3130-05	TRIMMING P0T. (33K)		
VR3			R12-1089-05	TRIMMING P0T. (4.7K)		
VR4			R12-5058-05	TRIMMING P0T. (100K)		
S1 -20	1A,2A		S40-1064-05	PUSH SWITCH		
D1 -4			CPF2232GR	FLUORESCENT INDICATOR TUBE		
D5 ,6			KV1310-4	VARIABLE CAPACITANCE DIODE		
D7 -10			KV1236(ZZ)	VARIABLE CAPACITANCE DIODE		
D7 -10			HSS104	DIODE		
D7 -10			1N4148	DIODE		

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D7 -10 D11 -12 D11 -12 D13 -14 D13 -14			1S5133 S5566B 1N4004 H55104A 1S5131	DIODE DIODE DIODE DIODE DIODE	TE TE TE EF TE	
D15 D15 D15 D16 D16			BZX55-C13 HZ513N(B2) RD13ES(B2) BZX55-C5V6 HZ55.6N(B2)	DIODE ZENER DIODE ZENER DIODE DIODE ZENER DIODE	EF TE TE EF TE	
D16 D17 D17 D17 D18 -19 D18 -19			RD5.6ES(B2) BZX55-C5V1 HZ55.1N(B) RD5.1ES(B) H55104	ZENER DIODE DIODE ZENER DIODE ZENER DIODE DIODE	TE EF TE TE TE	
D18 -19 D18 -19 D20 D20 D20			1N4148 1S5133 BZX55-C10 HZ510N(B) RD10ES(B)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	EF TE EF TE TE	
D21 -31 D21 -31 D21 -31 D39 -41 D39 -41			H55104 1N4148 1S5133 H55104 1N4148	DIODE DIODE DIODE DIODE DIODE	TE EF TE TE EF	
D39 -41 FL1 IC1 IC2 IC3	2B		1S5133 FIP88RM7 LA1265 AN7470 LM7001	DIODE FLUORESCENT INDICATOR TUBE IC(FM/AM TUNER) IC(FM MPX) IC(PLL FREQUENCY SYNTHESIZER)	TE	
IC4 Q1 Q2 Q3 -4 Q5			UPD7538AC-045 3K73(GR) 2SC1923(B) 2SC1923 2SK161(Y,GR)	IC(MICROPROCESSOR) FET TRANSISTOR TRANSISTOR FET		
Q6 Q7 Q8 Q8 Q8			2SC1923(R,B) 2SC1845(F,E) JC501(P,Q) 2SC1740S(Q,R) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	EF TE TE	
Q9 Q9 Q10 -15 Q10 -15 Q10 -15			2SK163(L,M) 2SK364(GR,BL) JC501(P,Q) 2SC1740S(Q,R) 2SC945(A)(Q,P)	FET FET TRANSISTOR TRANSISTOR TRANSISTOR	TE TE EF TE TE	
Q16 -17 Q16 -17 Q18 -19 Q18 -19 Q18 -19			2SK163(L,M) 2SK364(GR,BL) JC501(P,Q) 2SC1740S(Q,R) 2SC945(A)(Q,P)	FET FET TRANSISTOR TRANSISTOR TRANSISTOR	TE TE EF TE TE	
Q20 Q20 Q20 Q22 -23 Q25			JA101(P,Q) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SD1302(S,T) JC501(P,Q)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	EF TE TE EF EF	

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Q25 Q25 Q26 -27 Q26 -27 Q26 -27			2SC1740S(Q,R) 2SC945(A)(Q,P) JA101(P,Q) 2SA733(A)(Q,P) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TE TE EF TE TE	
Q28 Q29 Q29 Q29 Q30			2SD1266(Q,P) JA101(P,Q) 2SA733(A)(Q,P) 2SA933S(Q,R) JC501(P,Q)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	EF TE TE TE EF	
Q30 Q30 Q31 Q32 Q32			2SC1740S(Q,R) 2SC945(A)(Q,P) 2SC2003(L,K) JA101(P,Q) 2SA733(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TE TE TE EF TE	
Q32 Q33 Q33 Q33 Q34 -35			2SA933S(Q,R) JC501(P,Q) 2SC1740S(Q,R) 2SC945(A)(Q,P) JA101(P,Q)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TE EF TE TE EF	
Q34 -35 Q34 -35 Q36 Q36 Q36			2SA733(A)(Q,P) 2SA933S(Q,R) JC501(P,Q) 2SC1740S(Q,R) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TE TE EF TE TE	
Q37 Q37 Q37			JA101(P,Q) 2SA733(A)(Q,P) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR	EF TE TE	
TUNER UNIT (X05-374X-XX: 2-71: T, E, 2-73: EF)						
C1 C2 C3 C4 C5			C91-0713-05 CC45FSL1H220 C91-0757-05 C91-0720-05 C91-0718 05	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	2.2PF 22PF 1000PF 8.2PF 5.6PF	K J K K K
C6 C7 C8 C9 C10			C91-0716-05 C91-0720-05 C91-0749-05 C90-1332-05 CK45FF1H103Z	CERAMIC CERAMIC CERAMIC NP-ELEC CERAMIC	3.9PF 8.2PF 220PF 10UF 0.010UF	K K K 25WV Z
C11 C12 C14 C15 C16			CC45FSL1H020C CK45FB1H102K C91-0713-05 CK45FF1H103Z CC45FUJ1H080D	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	2.0PF 1000PF 2.2PF 0.010UF 8.0PF	C K K Z D
C17 C18 C19 C20 C21			C91-0733-05 CC45FSL1H150J C91-0713-05 C91-0737-05 CC45FSL1H101J	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	33PF 15PF 2.2PF 47PF 100PF	J J K J J
C22 C24 -25 C26 C27 -28 C29 -30			CK45FB1H102K CK45FF1H103Z CK45FF1H223Z CE04KW1H010M CK45FF1H223Z	CERAMIC CERAMIC CERAMIC ELECTRON CERAMIC	1000PF 0.010UF 0.022UF 1.0UF 0.022UF	K Z Z 50WV Z

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C31	-35		CC45FSL1H101J	CERAMIC 100PF J		
C32			CK45FF1H103Z	CERAMIC 0.010UF Z		
C36			C91-0085-05	CERAMIC 0.022UF N		
C37			CE04KW1C220M	ELECTR0 22UF 16WV		
C38			C91-0769-05	CERAMIC 0.01UF M		
C39			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C40			CE04KW1H4R7M	ELECTR0 4.7UF 50WV		
C41			CK45FF1H103Z	CERAMIC 0.010UF Z		
C42			CE04KW1H4R7M	ELECTR0 4.7UF 50WV		
C43			C91-0085-05	CERAMIC 0.022UF N		
C44			CF92FV1H153J	MF 0.015UF J		
C45			CE04KW1V100M	ELECTR0 10UF 35WV		
C46			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C47			CK45FB1H561K	CERAMIC 560PF K		
C48			CF92FV1H473J	MF 0.047UF J		
C49			CC45FSL1H221J	CERAMIC 220PF J		
C50	.51		CE04KW1C220M	ELECTR0 22UF 16WV		
C52			C91-0769-05	CERAMIC 0.01UF M		
C53			CC93FCH1H471J	CERAMIC 470PF J		
C54			CK45FB1H102K	CERAMIC 1000PF K		
C56	.57	*	CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C58			CF92FV1H472J	MF 4700PF J		
C60			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C61			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C62			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		
C63			CK45FF1H223Z	CERAMIC 0.022UF Z		
C65			C91-0085-05	CERAMIC 0.022UF N		
C68			C91-0769-05	CERAMIC 0.01UF M		
C69			CC45FTH1H101J	CERAMIC 100PF J		
C70			CC45FCH1H151J	CERAMIC 150PF J		
C71			CC93FCH1H221J	CERAMIC 220PF J		
C72			CC93FCH1H391J	CERAMIC 390PF J		
C75	-78		CE04KW1V100M	ELECTR0 10UF 35WV		
C76			CK45FB1H102K	CERAMIC 1000PF K		
C79			CC45FCH1H270J	CERAMIC 27PF J		
C80			CC45FCH1H560J	CERAMIC 56PF J		
C81			CK45FF1H103Z	CERAMIC 0.010UF Z		
C82			CE04LW1A101M	ELECTR0 100UF 10WV		
C83			CE04KW1V100M	ELECTR0 10UF 35WV		
C85			CE04KW1C101M	ELECTR0 100UF 16WV		
C86		*	CE04KW1V100M	ELECTR0 10UF 35WV		
C87			CE04KW1C221M	ELECTR0 220UF 16WV		
C88			CE04KW1E221M	ELECTR0 220UF 25WV		
C89			CE04KW1E102M	ELECTR0 1000UF 25WV		
C90			CE04KW1E101M	ELECTR0 100UF 25WV		
C91			CE04KW1C470M	ELECTR0 47UF 16WV		
C92			CE04KW0J102M	ELECTR0 1000UF 6.3WV		
C93			C90-1400-05	NP-ELEC 10UF 50WV		
C94		*	CE04KW1V100M	ELECTR0 10UF 35WV		
C95			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C98			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C99			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		
C100		*	CE04KW0J222M	ELECTR0 2200UF 6.3WV		
C101			CE04KW1V100M	ELECTR0 10UF 35WV		
C103			CK45FF1H103Z	CERAMIC 0.010UF Z		

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C104 C106,107 C109,110 C113,114 TC1		*	CE04KW1C101M CC45FSL1H331J CK45FF1H103Z CC45FSL1H181J C05-0302-05	ELECTRO 100UF 16WV CERAMIC 330PF J CERAMIC 0.010UF Z CERAMIC 180PF J CERAMIC TRIMMER CAPACITOR(11PF		
TC2 TC3 TC4 TC5			C05-0097-05 C05-0303-05 C05-0097-05 C05-0303-05	CERAMIC TRIMMER CAPACITOR(30PF CERAMIC TRIMMER CAPACITOR(20PF CERAMIC TRIMMER CAPACITOR(30PF CERAMIC TRIMMER CAPACITOR(20PF		
E1 E2	2B 1B		E20-0318-05 E13-0235-05	SCREW TERMINAL BOARD(2P) PHONE JACK (2P)		
CF1 ,2 CF3 CF4			L01-5832-05 L01-8642-05 L72-0536-05 L72-0099-05 L72-0096-05	POWER TRANSFORMER POWER TRANSFORMER CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER		
L1 L1 L2 L3 L4 ,5		*	L31-0581-05 L31-0594-05 L31-0520-05 L31-0580-05 L31-0579-05	FM-RF COIL FM-RF COIL FM-RF COIL FM-RF COIL FM-RF COIL		J S
L6 L7 L8 L9 L10			L40-1092-17 L32-0318-05 L30-0427-15 L30-0439-15 L30-0362-05	SMALL FIXED INDUCTOR(1UH,M) FM OSCILLATING COIL FM IFT FM IFT AM IFT		
L11 L12 L13 L14 L15			L79-0125-05 L79-0750-05 L31-0499-05 L31-0509-05 L32-0288-05	LC FILTER LC FILTER LW-RF COIL MW-RF COIL LW OSCILLATING COIL		
L16 L17 L18 -20 X1 X2			L32-0277-15 L40-1021-14 L40-1092-17 L77-0573-05 L78-0202-05	MW OSCILLATING COIL SMALL FIXED INDUCTOR(1.0MH,K) SMALL FIXED INDUCTOR(1UH,M) CRYSTAL RESONATOR(4.5MHZ) RESONATOR (400KHZ)		
R100 R101 R104,105 R123 R124			RD14GB2E220J RD14GB2E101J RD14GB2E101J RS14KB3A221J RS14KB3A471J	FL-PROOF RD 22 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RS 220 J 1W FL-PROOF RS 470 J 1W		
R171 VR1 VR2 VR3 VR4			RD14GB2E101J R12-3126-05 R12-3130-05 R12-1089-05 R12-5058-05	FL-PROOF RD 100 J 1/4W TRIMMING PNT. (10K) TRIMMING PNT. (33K) TRIMMING PNT. (4.7K) TRIMMING PNT. (100K)		
S1 -20	1A,2A		S40-1064-05	PUSH SWITCH		
D1 -4 D5 ,6 D7 -10 D7 -10			CPF2232GR FIP8BRM7 KV1310-4 KV1236(Z2) HSS104 1N4148	FLUORESCENT INDICATOR TUBE FLUORESCENT INDICATOR TUBE VARIABLE CAPACITANCE DIODE VARIABLE CAPACITANCE DIODE DIODE DIODE	TE EE	

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D7 -10 D11 ,12 D11 ,12 D13 ,14 D13 ,14			1SS133 SS566B 1N4004 HSS104A 1SS131	DIODE DIODE DIODE DIODE DIODE	TE TE EE	
D15 D15 D15 D16 D16			BZX55-C13 HZS13N(B2) RD13ES(B2) BZX55-C5V6 HZS5.6N(B2)	DIODE ZENER DIODE ZENER DIODE DIODE ZENER DIODE	EF TE TE EF TE	
D16 D17 D17 D17 D18 ,19			RD5.6ES(B2) BZX55-C5V1 HZS5.1N(B) RD5.1ES(B) HSS104	ZENER DIODE DIODE ZENER DIODE ZENER DIODE DIODE	TE EE TE TE TE	
D18 ,19 D18 ,19 D20 D20 D20			1N4148 1SS133 BZX55-C10 HZS10N(B) RD10ES(B)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	EF TE EF TE TE	
D21 -31 D21 -31 D21 -31 D39 -42 D39 -42			HSS104 1N4148 1SS133 HSS104 1N4148	DIODE DIODE DIODE DIODE DIODE	TE TE TE TE EE	
D39 -42 D43 D43 D43 IC1			1SS133 BZX55-C6V2 HZS6.2N(B2) RD6.2ES(B2) LA1265	DIODE DIODE ZENER DIODE ZENER DIODE IC(FM/AM TUNER)	TE EF TE TE TE	
IC2 IC3 IC4 Q1 Q2			AN7470 CX7925B UPD7538AC-041 3SK73(GR) 2SC1923(B)	IC(FM MPX) IC(FREQUENCY SYNTHESIZER PLL) IC(MICROPROCESSOR) FET TRANSISTOR		
Q3 ,4 Q5 Q6 Q7 ,8 Q9			2SC1923 2SK161(Y,GR) 2SC1923(R,B) 2SC1845(F,E) 2SK163(L,M)	TRANSISTOR FET TRANSISTOR TRANSIS. FET	TE	
Q9 Q10 -15 Q10 -15 Q10 -15 Q16 ,17			2SK364(GR,BL) JC501(P,Q) 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SK163(L,M)	FET TRANSISTOR TRANSISTOR TRANSISTOR FET	TE EF TE TE TE	J
Q16 ,17 Q18 ,19 Q18 ,19 Q18 ,19 Q20			2SK364(GR,BL) JC501(P,Q) 2SC1740S(Q,R) 2SC945(A)(Q,P) JA101(P,Q)	FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TE EF TE TE EF	
Q20 Q20 Q2 ,23 Q25 -27 Q25 -27			2SA733(A)(Q,P) 2SA933S(Q,R) 2SD1302(S,T) JA101(P,Q) 2SA733(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TE TE EF TE TE	

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Q25 -27			2SA933S(Q,R)	TRANSISTOR	TE	
Q28			2SD1266(Q,P)	TRANSISTOR	EE	
Q29			JA101(P,Q)	TRANSISTOR	TE	
Q29			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q29			2SA933S(Q,R)	TRANSISTOR	TE	
Q30			JC501(P,Q)	TRANSISTOR	EE	
Q30			2SC1740S(Q,R)	TRANSISTOR	TE	
Q30			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q31			2SC2003(L,K)	TRANSISTOR	EE	
Q32			JA101(P,Q)	TRANSISTOR	TE	
Q32			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q32			2SA933S(Q,R)	TRANSISTOR	TE	
Q33			JC501(P,Q)	TRANSISTOR	EE	
Q33			2SC1740S(Q,R)	TRANSISTOR	TE	
Q33			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q34 ,35			JA101(P,Q)	TRANSISTOR	EE	
Q34 ,35			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q34 ,35			2SA933S(Q,R)	TRANSISTOR	TE	
Q36			JC501(P,Q)	TRANSISTOR	EE	
Q36			2SC1740S(Q,R)	TRANSISTOR	TE	
Q36			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q37			JA101(P,Q)	TRANSISTOR	EE	
Q37			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q37			2SA933S(Q,R)	TRANSISTOR	TE	
Q38 ,39			JC501(P,Q)	TRANSISTOR	EE	
Q38 ,39			2SC1740S(Q,R)	TRANSISTOR	TE	
Q38 ,39			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q32			2SA933S(Q,R)	TRANSISTOR		S

E: Scandinavia & Europe K: USA P: Canada W: Europe

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia EF: FRANCE MADE

J: JAPAN MADE
S: SINGAPORE MADE

⚠ indicates safety critical components.

SPECIFICATIONS

FM tuner section (IHF)

Tuning frequency range 87.5 MHz - 108 MHz

Usable sensitivity (MONO) 0.95 μ V, 10.8 dBf

Total harmonic distortion (at 1 kHz)

MONO: 0.3 %

STEREO: 0.3 %

Signal-to-Noise ratio (at 1 kHz, 65 dBf input)

MONO: 76 dB

STEREO: 72 dB

Alternate channel selectivity (± 400 kHz) 50 dB

Stereo separation at 1 kHz 40 dB

Frequency response 30 Hz - 15 kHz +0.5 dB, -2 dB

Output level/impedance (75 kHz dev.) 0.6 V/3.3 kohms

MW tuner section

Tuning frequency range 531 kHz - 1602 kHz

Usable sensitivity 14 μ V, 400 μ V/m

Signal-to-Noise ratio (30% mod. 1mV input) 50 dB

Total harmonic distortion 0.5 %

Selectivity 25 dB

LW tuner section

Tuning frequency range 153 kHz - 281 kHz

Usable sensitivity 17 μ V, 800 μ V/m

Signal-to-Noise ratio (30% mod. 1mV input) 50 dB

Total harmonic distortion 0.5 %

Selectivity 30 dB

General

Power consumption 7 W

Dimensions W: 440 mm (17-5/16")

H: 74 mm (2-15/16")

D: 267 mm (10-1/2")

Weight (Net) 3.1 kg (6.8 lb)

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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